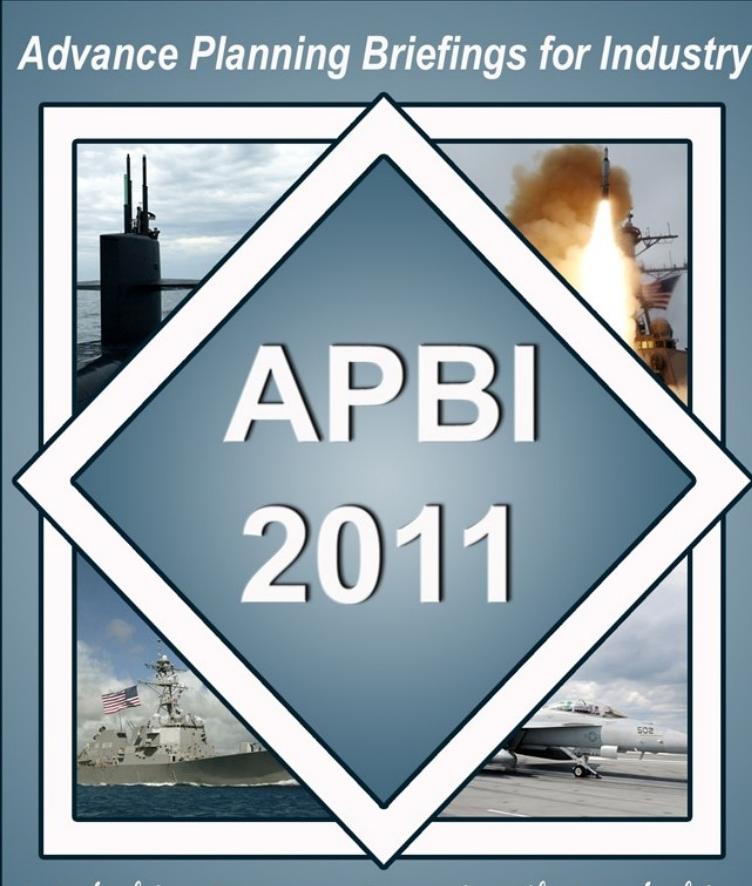




Naval Surface Warfare Center Crane Division

Advance Planning Briefings for Industry



The logo for APBI 2011 is centered on a blue diamond shape with a white double-lined border. Inside the diamond, the letters "APBI" are stacked above the year "2011". Behind the diamond is a white rectangular frame containing four small images: a submarine, a missile launch, a ship at sea, and an F/A-18 Hornet on a runway. Below the diamond is the slogan "Warfighter Success - Supporting the Warfighter".

APBI
2011

"Warfighter Success - Supporting the Warfighter"

Customer Advocate Above Water Sensors

29 MAR 2011

**Howard
James**

Description of Portfolio Above Water Sensors

- **Key Sponsors:**

- | | |
|----------------|------------------------------|
| - PEO IWS 2 | Above Water Sensors MPM |
| - PEO IWS 2I | CJR/SBX MPM |
| - PEO IWS 2E | Electronic Warfare |
| - PEO IWS 2RA | Phased Arrays |
| - PEO IWS 2RAX | Advanced Radars |
| - PEO IWS2RI | Rotating Radars |
| - NAVICP Mech | (PBLO, Sustainment & Repair) |
| - PEO Ships | Surface Combatant |

- **Financial Overview**

- FY 12 funding - \$135,000,000
- 266 Government Work Years & 88 Contractor Work Years

Above Water Sensors Strategic Environment

- **LCS & AMDR- next AEGIS**
- **Sensor Fusion is the wave of the future-Large Volume Data Links**
 - Combining data from different sensors to improve situational awareness
- **Common Processes across Warfare Centers & Program Executive Office Integrated Warfare Systems**
- **Funding Issues**
 - Tighten Budgets, Carry Over, ERP, Continuing Resolution
- **Objective Architecture**
 - Sensor Management Domain
 - Supportability Domain
- **Acquisition Engineering & Contracting**
- **Technology Insertion (ONR/DARPA)**
 - Requirements moving to closer oversight of insertions
- **Crane has formal Solid State Product Support Integrator assignment- looking at components across systems**



Above Water Sensors Strategic Theme(s)

- **National Leadership**
- **Soft Kill Integration**
- **Customer Base Broadening**
- **Total Life Cycle Support**
- **Technology Integration & Partnerships**



Above Water Sensors Critical Areas

- **Sensor Fusion**
- **Soft Kill**
- **National Assignments**
- **SBX Mission Systems Operations and Sustainment**

Above Water Sensors Sensor Fusion

- **GOAL**
 - Develop technologies and capabilities to support Sensor Fusion across multiple systems and multiple platforms
- **OBJECTIVES**
 - Utilize Sensor Fusion to become recognized as the leader for battle management in Spectrum Warfare
 - Battle management (EW, Radar, EO/IR, CREW & land based systems)
 - Leverage Sensor Fusion to become the navy's SMEs for Electronic Protection & Surveillance:
 - Simulations
 - Leverage Maritime's Simulation capability for Battle management
 - Data merging
 - Use SMEs to develop software integration processes
- **INITIATIVES**
 - Demonstrate that Crane can send I&Q data over large distances
 - Work with OEM's to create data sharing teaming opportunities

Above Water Sensors Soft Kill

GOAL

- Enhance NSWC Crane technical capabilities in EW, IRCM, Radar and EO/IR, enabling the organization to effectively meet soft kill technical challenges

OBJECTIVES

- Integrate RF, EO/IR, IRCM & EW sensors
- Land formal government assignments as Soft Kill/Hard Kill Integrators

INITIATIVES

- Develop & capitalize off government & industry relationships for opportunities

Above Water Sensors National Assignments

GOAL

- Provide increased Science & Technology capabilities to End Users

OBJECTIVES

- Become the Product Support Integrator for additional sensor LRUs
- Develop and execute transition plans for technology developed by ONR & NRL

INITIATIVES

- Develop teaming agreements with LABs, OEMs & Small Businesses
- Develop & present joint Crane/Industry technical papers
- Set up IPT to define 10 year vision

Above Water Sensors

SBX Mission Systems Operations and Sustainment Transition

GOAL

- To become the SBX Mission Systems Operations and Sustainment Integrated Product Team Lead

OBJECTIVES

- Deliver a greater level of performance outcome at the same level of cost, or deliver the same level of performance outcome at a lower cost
- Utilize the performance and cost metrics after transfer to affect contract modifications or develop follow-on contracts early that will more effectively bring about the necessary productivity growth (cost savings/avoidance)

INITIATIVES

- Reduce SBX O & S costs by 5% per year
- Establish Mission Systems Situational Awareness Center at Crane



Above Water Sensors Partnership Opportunities

- **Develop MOAs/MOUAs/CRADAs etc. with Industry for Critical Area Collaboration**
- **Develop partnerships with MIT, Penn State, APL, Purdue, GTRI & other Universities for Critical Areas Collaboration**
- **Pursue joint ventures with DARPA, ONR & NRL in Critical areas**



Above Water Sensors Strategic Summary

- Share your good ideas/proposals with us
- **IF they are within our focus areas and will improve our Warfighting capability or Lower Total Life Cycle costs - they will be passed on.**
- **We have a few options:**
 - Communicate these ideas to the Program Office
 - Introduce you to major OEM's about teaming with your company
- **We have to work together!**



Naval Surface Warfare Center Crane Division

Advance Planning Briefings for Industry

**APBI
2011**



"Warfighter Success - Supporting the Warfighter"

